

# Lebesgue constant estimation in multidimensional Sobolev space

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## Abstract

The norm estimation of the Lagrange interpolation operator is obtained. It is shown that the rate of convergence of the interpolative polynomials depends on the choice of the sequence of multiindices and, for some sequences, is equal to the rate of the best approximation of the interpolated function.

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## Keywords

Lagrange interpolation operator, Sobolev space